

N^o 7148



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COMPLETE SPECIFICATION.

Improvements in, or relating to, Plungers for Washing Purposes.

I, ERNEST ALBERT CLOUD, of 9, Stile Hall Mansions, Chiswick, London, W., Mechanical Engineer, do hereby declare the nature of my said invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

- 5 The object of the present invention is to improve that class of device for washing purposes in which a hollow plunger is manipulated to produce water surging, and in particular that form of plunger which is valved and embodies a container for detergents. With these ends in view, the invention consists in the provision, at the mouth of a plunger, of a marginal region adapted to receive, and having applied thereto, material such as rubber, felt, cord, canvas, a brush or the like which will encounter the clothes as a plunge is being made and so prevent them being injured by too violent a contact with the metal portion of the plunger and the wash tub; and, further, in a construction and combination of parts which will be described with the aid of the accompanying drawings. In the said drawings, Fig. 1 illustrates, mainly in section, a plunger for direct hand operation, Figs. 2 and 3 being views of detail modifications. As shown in Fig. 1, 1 is a main conical member such as is commonly employed, to the periphery of which is fitted a ring 2 of suitable soft material such as referred to, the said ring being in this instance retained snugly against a grooved annular rim 3 by an inner metal ring 4 which may be secured either by means such as rivets, by soldering, or in a more easily removable manner if preferred. 5 is an annular soap container which is removably held in a cylindrical casing 6 by means such as a flanged and perforated cover 7 having a flared extension 8. The said cover may be frictionally held in place or be connected to the casing by a bayonet joint, by screwing or equivalently. The casing 6 has a wall 9 making a liquid-tight joint with the main conical member 1 and with a central tubular member 10 adapted to be closed at the lower end by a valve, such as a disc 11 of leather, rubber or the like connected through a stem 12 to a handle 13. The member 10 is shown as attached to a tube 14 perforated at 15 and serving as a guide for a ferrule 16 to which the handle 13 is secured. The wall of the conical region between the casing wall 9 and the tube 14 is perforated, as at 17, and perforations 18 are also provided in the central tubular member 10 in this region, 19 being a conical guard to minimize splash. The rim 20 of the guard may conveniently be perforated, as at 21, to lessen water resistance. 22 are perforations in the smaller cylindrical wall of the soap container.

- The arrangement is such that whilst a plunge is being made the valve 11 is forced open, water being thus free to rise within the main member 1, the flared device 8 and the guard 19, the course of the water streams in the latter case being indicated by the full line arrows. A certain amount of water finds its way into the soap container by the holes 22 as well as by the outer perforations in the cover 7, such water being mainly drawn out of the container by the latter perforations due to the vacuum that is produced in the main conical member 1

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when the plunger is raised and the valve closed. The soap container, with its contents, can be easily removed when not required.

As will be understood, the details may be somewhat modified, the member 1 for example being made bell shaped if preferred. Other permissible modifications are self explanatory from an inspection of Figs. 2 and 3. 5

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. The provision at the mouth of a plunger for the purpose set forth, of a marginal region adapted to receive, and having applied thereto, material, a brush 10 or the like, substantially as described.
2. A valved washing plunger constructed substantially as illustrated in Fig. 1 of the accompanying drawings.

Dated this 12th day of May, 1915.

E. A. CLOUD. 15

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[This Drawing is a reproduction of the Original on a reduced scale.]

